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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|-------------|----------------------|-------------------------|-------------------------|--|
| 10/040,047 | 10/29/2001 | Yuan Gao | 208-6164 | 1829 | |
| 7590 10/01/2003 F. Michael Sajovec Myers Bigel Sibley & Sajovec Post Office Box 37428 | | | | 6 | |
| | | | EXAM | EXAMINER | |
| | | | KALAFUT, STEPHEN J | | |
| Raleigh, NC 2 | 1021 | | ART UNIT | PAPER NUMBER | |
| | | | 1745 | | |
| | | | DATE MAILED: 10/01/2003 | DATE MAILED: 10/01/2003 | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | | AS | - | | | |
|---|--|--|-----|--|--|--|
| | Applicati n N . | Applicant(s) | _ | | | |
| | 10/040,047 | GAO ET AL. | | | | |
| Office Action Summary | Examin r | Art Unit | | | | |
| | Stephen J. Kalafut | 1745 | | | | |
| The MAILING DATE of this communication app Period f r Reply | ears on the cover sheet with the c | corresp ndence address | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status | 36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | | |
| 1) Responsive to communication(s) filed on | | | | | | |
| | — · s action is non-final. | | | | | |
| 3) Since this application is in condition for allowa | | rosecution as to the merits is | | | | |
| closed in accordance with the practice under the | Ex parte Quayle, 1935 C.D. 11, 4 | 153 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| 4) Claim(s) 1-97 is/are pending in the application. | | | | | | |
| | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | |
| | 5) Claim(s) is/are allowed. | | | | | |
| | Claim(s) is/are rejected. | | | | | |
| <u> </u> | 7) ☐ Claim(s) is/are objected to. 8) ☒ Claim(s) 1-97 are subject to restriction and/or election requirement. | | | | | |
| Application Papers | rection requirement. | | | | | |
| 9) The specification is objected to by the Examiner | | | _ | | | |
| 10) The drawing(s) filed on is/are: a) accep | | miner. | | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. | | | | | | |
| If approved, corrected drawings are required in reply to this Office action. | | | | | | |
| 12)☐ The oath or declaration is objected to by the Exa | aminer. | | | | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | | | | |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). | | | | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | | | | |
| 1. Certified copies of the priority documents | have been received. | | | | | |
| 2. Certified copies of the priority documents | have been received in Application | on No | | | | |
| 3. Copies of the certified copies of the prioriapplication from the International Bur* See the attached detailed Office action for a list of | eau (PCT Rule 17.2(a)). | • | | | | |
| 14) Acknowledgment is made of a claim for domestic | priority under 35 U.S.C. § 119(e | e) (to a provisional application). | İ | | | |
| a) The translation of the foreign language prov 15) Acknowledgment is made of a claim for domestic | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of Informal F | (PTO-413) Paper No(s) Patent Application (PTO-152) | | | | |
| | | | - 1 | | | |

Application/Control Number: 10/040,047

Art Unit: 1745

This application contains claims directed to the following patentably distinct species of the claimed invention:

For transition metal (M¹) of the active material:

Ti (IV-B); V (V-B); Cr or Mo (VI-B); Mn (VII-B); and Fe, Ni or Co (VIII)

For the dopant metal of the active material:

Li (I-A); Mg, Ca, Sr or Ba (II-A); Te (VI-A); Ti or Zr (IV-B); Mo (VI-B); and Co or Ru (VIII)

For the metal of the ionically conductive lithium oxide:

Al (III-A); Sn, Si or Ge (IV-A); Te (VI-A); Ti, Hf or Zr (IV-B); Mo (VI-B); Mn (VII-B); and Ru (VIII).

The metals are grouped according to their positions in the periodic table. Since metals of the same group would be expected to have similar electrochemical behavior, metals in the same groups will be examined together. For example, if applicants wish to choose Sn as the metal of the conductive oxide, Si and Ge will be examined along with Sn. A choice must be made for all three components.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 37 and 95 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Kalafut whose telephone number is 703-308-0433. The examiner can normally be reached on Mon-Fri 8:00 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan can be reached on 703-308-2383. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

sjk

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